

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number
WO 2005/081414 A1

(51) International Patent Classification⁷: **H04B 1/04**,
H03F 1/32

(21) International Application Number:
PCT/EP2005/050581

(22) International Filing Date: 9 February 2005 (09.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
04290406.0 13 February 2004 (13.02.2004) EP

(71) Applicant (for all designated States except US): **THOM-
SON LICENSING S.A.** [FR/FR]; 46, quai Alphonse Le
Gallo, F-92100 Boulogne (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GILBERTON,
Philippe** [FR/US]; 24 Stonewall Circle, Princeton, NJ
08648 (US). **KNUTSON, Paul** [US/US]; 5 Huron Way,
Lawrenceville, NJ 08648 (US).

(74) Agent: **KOHRs, Martin**; Thomson, European Patent Op-
erations, 46, quai Alphonse Le Gallo, F-92648 Boulogne
(FR).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: CONTROL OF A POWER AMPLIFIER FOR REDUCING POWER CONSUMPTION IN A TRANSCEIVER

(57) Abstract: A technique for controlling a transceiver apparatus (100) is useful for reducing power consumption, and may be particularly applicable to mobile transceivers which employ a battery power supply. According to an exemplary embodiment, the transceiver apparatus (100) includes a power amplifier (56) for amplifying a transmission signal. A controller (30) controls the power amplifier (56) based on a power level of third order intermodulation products associated with the power amplifier (56).



WO 2005/081414 A1